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### From the INTERNATIONAL SEARCHING AUTHORITY

APR 2 2 2002

Attn. Allen, Gregory D. Post Office Box 33427 Saint Paul, MN 55133-3427 UNITED STATES OF AMERICA	PROPER NOVATIVE F	2 2 2002 (PC	OF TRANSMITTAL OF ONAL SEARCH REPORT IE DECLARATION  CT Rule 44.1)
Applicant's or agent's file reference			
55955W0004	, , , , , , , , , , , , , , , , , , ,	FOR FURTHER ACTION	See paragraphs 1 and 4 below
International application No. PCT/US 01/31178		nternational filing date (day/month/year) 27/09	9/2001
Applicant  3M INNOVATIVE PROPERTIES COMPANY			
1. X The applicant is hereby notified that the Internation Filing of amendments and statement under A The applicant is entitled, if he so wishes, to ame	rticle 19: nd the claims	of the International Application	(see Rule 46):
When? The time limit for filing such amendment international Search Report; however,	nts is normally for more deta	y 2 months from the date of tran ails, see the notes on the period	npanying sneet.
Where? Directly to the International Bureau 34, chemin des Color 1211 Geneva 20, Sw Fascimile No.: (41-22)	nbettes itzerland	AR	TTE USCO Q P.T.O.?
For more detailed instructions, see the notes			23/03
2. The applicant is hereby notified that no Internation Article 17(2)(a) to that effect is transmitted here	tional Search with.	Report will be established and	that the declaration under
3. With regard to the protest against payment o	f (an) addition	nal fee(s) under Rule 40.2, the a	applicant is notified that:
the protest together with the decision ther applicant's request to forward the texts of	eon has been both the prote	transmitted to the International est and the decision thereon to	l Bureau together with the the designated Offices.
no decision has been made yet on the pro	otest; the appl	licant will be notified as soon as	s a decision is made.
4. Further action(s): The applicant is reminded of the		•	_
Shortly after 18 months from the priority date, the in If the applicant wishes to avoid or postpone publica priority claim, must reach the International Bureau completion of the technical preparations for internal	ation, a notice as provided i ational publica	n Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, retion.	espectively, before the
Within 19 months from the priority date, a demand f wishes to postpone the entry into the national phase	or internations se until 30 mo	al preliminary examination mus nths from the priority date (in s	t be filed if the applicant ome Offices even later).
Within 20 months from the priority date, the applicate before all designated Offices which have not beer priority date or could not be elected because they	1 electea in un	e delligita or ill a later election	into the national phase within 19 months from the
Name and mailing address of the International Searchin	g Authority	Authorized officer	
European Patent Office, P.B. 5818 Patentla NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni Fax: (+31-70) 340-3016	aan 2	Véronique Bail	lou

Form PCT/ISA/220 (July 1998)

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#### **NOTES TO FORM PCT/ISA/220**

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

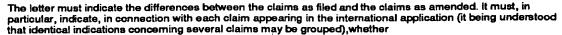
#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

#### NOTES TO FORM PCT/ISA/220 (continued)



- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- Where originally there were 15 claims and after amendment of all claims there are 11]:
   "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### it must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
55955W0004 International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
пцетпацопаларрисацоп но.		
PCT/US 01/31178	27/09/2001	28/09/2000
Applicant  3M INNOVATIVE PROPERTIES	COMPANY	
according to Article 18. A copy is being to	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited in this	s report.
1. Basis of the report		
<ul> <li>a. With regard to the language, the language in which it was filed, un</li> </ul>	International search was carried out on the baless otherwise indicated under this item.	asis of the international application in the
the international search v Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of	the international application furnished to this
was carried out on the basis of the contained in the internation	ne sequence listing : onal application in written form.	international application, the international search
	ernational application in computer readable for	rm.
. —	o this Authority in written form.	
	o this Authority in computer readble form.	
the statement that the su international application	bsequently furnished written sequence listing as filed has been furnished.	does not go beyond the disclosure in the
the statement that the inf furnished	formation recorded in computer readable form	is identical to the written sequence listing has been
2. Certain claims were for	und unsearchable (See Box I).	
3. Unity of invention is la	cking (see Box II).	
4. With regard to the <b>title</b> ,	when the day, the applicant	
<u> </u>	submitted by the applicant.	
	ished by this Authority to read as follows:	, METHODS FOR MAKING THE SAME
AND DISC BRAKES	MS, MEIAH MAIRIA COMPOSITES	, Milliobb Tok Millio III 51-1-
5. With regard to the abstract,		
_	submitted by the applicant.	•
the text has been estable	ished, according to Rule 38.2(b), by this Authone date of mailing of this International search r	ority as it appears in Box III. The applicant may, report, submit comments to this Authority.
6. The figure of the <b>drawings</b> to be pu	•	1
X as suggested by the app		None of the figures.
. —	ailed to suggest a figure.	
	er characterizes the invention.	· .

# INTERNATIONAL SEARCH REPORT

ernational Application No PCT/US 01/31178

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C22C1/10 C04B41/88
B22D19/14

C04B38/00

F16D55/226

F16D65/12

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 199 481 A (CORVIN JOHN M ET AL) 6 April 1993 (1993-04-06) cited in the application	1-11, 14-67, 70-72, 75-78, 81-84, 87-90, 93-95, 98,99, 102,103, 106,107
·	claims 15,17,19 column 11, line 38 -column 13, line 41 column 17, line 3 - line 26 figures 6-8	
	_/	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.			
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cifed to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>			
Date of the actual completion of the international search	Date of mailing of the International search report  22/04/2002			
12 April 2002  Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer			
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Rosenberger, J			

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# INTENATIONAL SEARCH REPORT

rnational Application No PCT/US 01/31178

·	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
<b>(</b>	US 4 468 272 A (DONOMOTO TADASHI ET AL) 28 August 1984 (1984-08-28)	1-4, 6-11, 13-21, 24-26, 40-67, 70-72, 75-78, 81-84, 87-90
		27-39, 93-95, 98,99, 102,103, 106
	column 6, line 64 -column 7, line 25	1
A	US 5 119 864 A (KENNEDY CHRISTOPHER R ET AL) 9 June 1992 (1992-06-09) example 2	1-109
A	US 4 705 093 A (OGINO KINJI) 10 November 1987 (1987-11-10) cited in the application	1-109
	claims; figures	
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## INTERNATIONAL SEARCH REPORT

nation on patent family members

PCT/US 01/31178

	atent document I in search report		Publication date		Patent family member(s)	Publication date
, US	5199481	A	06-04-1993	US US CA	4932099 A 5172746 A 2000770 A1	12-06-1990 22-12-1992 17-04-1990
				DE	68920263 D1	09-02-1995
				DE	68920263 T2	03-08-1995
				DE	68920267 D1	09-02-1995
				DE	68920267 T2	03-08-1995
				EP Ep	0364963 A1 0365978 A1	25-04-1990 02-05-1990
US	4468272	Α	28-08-1984	JP	1794278 C	14-10-1993
				JP	59067336 A	17-04-1984 19-08-1988
				JP DE	63041965 B 3367621 D1	02-01-1987
	•		,	EP	0108216 A1	16-05-1984
US	5119864	Α	09-06-1992	US T	5007474 A 116582 T	16-04-1991 15-01-1995
				AU	656322 B2	02-02-1995
				AU	7878991 A	27-11-1991
				CA	2081554 A1	10-11-1991
	•			DE .	69106504 D1	16-02-1995
				DE	69106504 T2	11-05-1995
		•		EP	0527901 A1	24-02-1993 21-03-2000
•				JP	3022925 B2 216332 B1	21-03-2000 16-08-1999
				KR WO	9117011 A1	14-11-1991
			•	US	5553657 A	10-09-1996
				US	5851686 A	22-12-1998
				US	5240062 A	31-08-1993
			•	AT	97170 T	15-11-1993
				AU	624417 B2	11-06-1992
				AU	4164789 A	17-05-1990 05-06-1990
				BR CA	8905757 A 2000774 A1	10-05-1990
				CN	1042489 A ,B	30-05-1990
		5		DE	68910642 D1	16-12-1993
			1	DE	68910642 T2	24-03-1994
	•		• ;	DK	559489 A	11-05-1990
				EP	0368790 A1	16-05-1990 31-03-1994
				FI	91493 B	28-06-1995
				IE IL	64012 B1 91721 A	27-02-1994
				JP	2240226 A	25-09-1990
				JP	2905523 B2	14-06-1999
				KR	9708038 B1	20-05-1997
				MX	173265 B	14-02-1994
				NO	175850 B	12-09-1994
				NZ	231075 A	25-09-1991 13-10-1992
				PH	26801 A	31-05-1990
				PT RO	92253 A ,B 105979 B1	30-01-1993
				TR	27101 A	08-11-1994
				ZA	8908530 A	31-07-1991
U	 IS 4705093	A	10-11-1987	JP	61293649 A	24-12-1986
				DE	3620510 A1 2176725 A ,B	02-01-1987 07-01-1987
				GB	91/6/96 A D	11/-UI-UAX/